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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22917

7590

09/09/2009

MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196

EXAMINER				
NGUYEN, DUC M				
ART UNIT	PAPER NUMBER			
2618				

DATE MAILED: 09/09/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,988	12/30/2003	David P. Goren	SBL01268	8253

TITLE OF INVENTION: LOCATION TRACKING USING DIRECTIONAL ANTENNAS COMBINED WITH SIGNAL STRENGTH MEASUREMENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

maintenance fee notifica	tions.						correspondence address as trate "FEE ADDRESS" for
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SCHAUMBURG	G, IL 60196						(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	DRNEY DOCKET NO.	CONFIRMATION NO.
10/748,988	12/30/2003	•	David P. Goren			SBL01268	8253
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nonprovisional	NO	\$1510	\$300	\$0 <b>7</b>		\$1810	12/09/2009
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NGUYEN	N, DUC M	2618	455-115300				
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PLEASE NOTE: Unl recordation as set fort	less an assignee is ident h in 37 CFR 3.11. Com	tified below, no assignee pletion of this form is NO	data will appear on the p T a substitute for filing an	atent. If an assign	ee is i	dentified below, the de	ocument has been filed for
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Authorized Signature				Date			
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MOTOROLA, INC.			NGUYEN	, DUC M
1303 EAST ALGONQUIN ROAD			ART UNIT	PAPER NUMBER
IL01/3RD SCHAUMBURG	, IL 60196		2618 DATE MAILED: 09/09/200	9

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 898 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 898 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/748,988	GOREN, DAVID P.			
Notice of Allowability	Examiner	Art Unit			
	DUC M. NGUYEN	2618			
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 6/26/09.	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not included nunication will be mailed in due course. <b>TI</b>			
2. ☑ The allowed claim(s) is/are <u>8-14</u> .					
3. Acknowledgment is made of a claim for foreign priority un  a) All b) Some* c) None of the:  1. Certified copies of the priority documents have  2. Certified copies of the priority documents have  3. Copies of the certified copies of the priority documents have  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have  Applicant has THREE MONTHS FROM THE "MAILING DATE" on the complex of the priority documents have a priori	been received. been received in Application cuments have been received of this communication to fil ENT of this application.	on No  ed in this national stage application from the stage application from the stage application from the stage application from the stage and stage are ply complying with the requirements.	s		
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  /Duc M. Nguyen/ Primary Examiner, Art Unit 2618	6. ☐ Interview S Paper No 7. ☐ Examiner's	nformal Patent Application Summary (PTO-413),  ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance			

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Art Unit: 2618

# Reason for Allowance

1. The following is an examiner's statement of reasons for allowance:

The instant application is directed to a non-obvious feature implementation over the invention or method described in cited prior arts, where the non-obvious feature implementation comprises access points that are provided with antennas having antenna patterns with selected pattern shape for enhancing location of said mobile units, said selected pattern shapes include horizontally offset non-intersecting directional antenna patterns, and wherein a first group of said access points are arranged in an opposing interleaved pattern relative to a second group of said access points.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# 2. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

#### or faxed to:

(571) 273-8300 (for **formal** communications intended for entry)

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Art Unit: 2618

(571)-273-7893 (for informal or **draft** communications).

Hand-delivered responses should be brought to Customer Service Window,

Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

Any inquiry concerning this communication or communications from the examiner should be directed to Duc M. Nguyen whose telephone number is (571) 272-7893, Monday-Thursday (9:00 AM - 5:00 PM).

Or to Nay Maung (Supervisor) whose telephone number is (571) 272-7882.

/Duc M. Nguyen/

Primary Examiner, Art Unit 2618

Aug 28, 2009